This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 (original): A method of wireless communication, comprising the steps of:

- (a) transmitting a first packet on a transmission channel to a transceiver:
- (b) receiving a second packet on a transmission channel from said transceiver. said second packet including information regarding the transmission channel to said transceiver:
 - (c) measuring the transmission channel from said transceiver:
- (d) calculating calibration factors for said transmission channel to said transceiver using the information from step (b) and the measurement from step (c); and
- (e) for transmitting a third packet on said transmission channel to said transceiver, estimating said transmission channel to said transceiver from said calibration factors and a second measurement of said transmission channel from said transceiver.

Claim 2 (original): The method of claim 1, wherein:

(a) said calibration factors include a gain factor and a phase shift factor.

Claim 3 (original): The method of claim 2, wherein:

(a) said gain factor is the ratio of an overall gain for transmission to said transceiver divided by an overall gain for transmission from said transceiver. Appl.No.: 09/820,152 Amendment dated 04/25/2006 Response to Office Action mailed 01/25/2006

Claim 4 (original): The method of claim 2, wherein:

(a) said phase shift factor is the difference of an overall phase shift for transmission to said transceiver minus an overall phase shift for transmission from said transceiver.

Claim 5 (original): The method of claim 1, wherein:

(a) said transmitting is in a time division duplex mode.

Claim 6 (original): The method of claim 1, wherein:

(a) said first packet includes a request for said transceiver to respond with information regarding the transmission channel to said transceiver.

Claim 7 (original): The method of claim 1, further comprising:

(a) updates of said information from said transceiver.

Claim 8 (currently amended): A wireless communication system, comprising:

- (a) a master transceiver for a communication channel; and
- (b) a slave transceiver for said communication channel:
- (c) wherein said master transmits to said slave using <u>updated</u> estimates for said communication channel <u>when said communication channel measured from transmission received from said slave shows a change in said communication <u>channel</u>, <u>said updated estimates</u> calculated from (ii) measurements of said communication channel for transmission received from said slave together with (iii) calibration factors from prior measurements of said communication channel by said slave and <u>by</u> said master <u>where said prior measurements are periodically performed.</u></u>

Claim 9 (previously presented): A wireless communication transceiver, comprising:

(a) a transmitter;

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- (b) a receiver coupled to said transmitter;
- (c) said transmitter including a channel estimator and a wave shaper for transmitting to a transceiver, wherein said channel estimator estimates the channel to said transceiver from measurements of the channel from said transceiver together with calibration factors from channel information received from said transceiver.